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format retrieving access request operations "d

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MJ Healy - US Patent 5,505,986, 1996 - Google Patents

... SET TIMER[^(4Q2 IS **REQUEST** FOR MIGRATION HISTORY OR SPACE MIGRA ... **ACCESS**  
VOLUME FOR INFORMATION 413 ^ GET DFHSM INFORMATION ^ 409 PACKAGE RETURN ...  
READ **FORMAT** 4 DCSB FOR ALL VOLUMES READ TAPE MANAGEMENT RECORD ...[Cited by 27](#) - [Related articles](#) - [All 2 versions](#)Method and apparatus for reading data from mirrored logical volumes on physical ...

N Vishnitzky, Y Ofek, E Bachmat - US Patent 5,819,310, 1998 - Google Patents

... reading processes and a corre- spondence table that establishes the reading process to be used  
in **retrieving** data from ... YES 90 •91 READ DATA FROM STORAGE DEVICE INTO DEVICE  
CONTROLLER BUFFER -92 **REQUEST** AND OBTAIN BUS **ACCESS** 93 WRITE ...[Cited by 33](#) - [Related articles](#) - [All 2 versions](#)Data security arrangement for an automated magnetic tape cartridge library system

FG Munro, KJ Beavers, RW Korngiebel, RL ... - US Patent ..., 1990 - Google Patents

... cartridge storage cells 65 Thus, the host computer is not even aware of the exis- for **retrieving**  
and replacing ... 13 illustrates a typical label **format** that can be used in this system. ... In **operation**,  
a user connected to host computer 101 re- quests **access** to **data stored** in a designated ...[Cited by 28](#) - [Related articles](#) - [All 2 versions](#)Mass data storage and retrieval system

CW Martin, FS Reid, GL Forbus, SM Adams, ... - US Patent ..., 1996 - Google Patents

... Further, it is difficult in such systems to 65 have parallel **operations** whereby several computers  
may be simultaneously accessing ... interface computers are coupled to a plurality of host computers  
for receiving data and for generating **request** signals to **access** desired infor ...[Cited by 19](#) - [Related articles](#) - [All 2 versions](#)Mass data storage library

CW Martin, FS Reid, GL Forbus, SM Adams, ... - US Patent ..., 1995 - Google Patents

... on the library tapes, the mass storage library concept computer generating an **access request**  
signal to ... in parallel, slots, each of be quickly accessed without having to **access** the actual ... of the  
tape drives is divided between plurality of data recorder modules for **retrieving** a des-[Cited by 28](#) - [Related articles](#) - [All 3 versions](#)Data compression/decompression and storage of compressed and uncompressed ...

JE Kulakowski, RJ Means - US Patent 5,394,534, 1995 - Google Patents

... the data transfer unit, in bytes, is selected to facilitate addressing and **retrieving** individual recorded ...  
BACKGROUND OF THE INVENTION (LBA) used by SCSI architected direct-**access** data Many ...  
PRIOR ART the compressed data blocks recorded in an FBA **format**- The Vosacek ...[Cited by 42](#) - [Related articles](#) - [All 2 versions](#)Queue time reduction in a data storage hierarchy using volume mount rate

CH Dang, MT Solan, DJ Winarski - US Patent 5,423,018, 1995 - Google Patents

... In a pass-through port, an opening in hi and **retrieving** data from a data storage hierarchy. ...  
The recording **format** may be becomes available. ... In **operation**, host processor 25 may  
**request access** to 60 data on DASD 26 or libraries 27-29. ...

[Cited by 20](#) - [Related articles](#) - [All 2 versions](#)

### File server having snapshot application data groups

JS Belsan, JS Laughlin, MH Pedersen, RJ ... - US Patent ..., 1995 - Google Patents  
... GET LOGICAL CYLINDER TO HOLD DATA NO UPDATE LOGICAL CYLINDER **ACCESS**  
COUNTER AND LAST **ACCESS** DATE 631 ... MAP LOGICAL DEVICE TO PHYSICAL DEVICES  
SCHEDULE 607 PHYSICAL READCS) 608 CLEAR ERRORS FOR **OPERATION** YES 609 ...

[Cited by 71](#) - [Related articles](#) - [All 2 versions](#)

### System for locating and anticipating data storage media failures

PI Wolf, NB Ivans - US Patent 5,287,363, 1994 - Google Patents  
... of peripheral storage media and log events indicating the occurrence of any difficulty in **retrieving**  
data, and ... a program in response to a user's command, or making a hard disk **access**, are known ...  
This allows a computer program to **request** a DOS service such as reading a sector ...

[Cited by 19](#) - [Related articles](#) - [All 2 versions](#)

### Redundant storage with mirroring by logical volume with diverse reading process

N Vishnitzky, Y Ofek, E Bachmat - US Patent 5,937,566, 1999 - Google Patents  
... Each of the disk drives is divided into logical volumes. Each device control- ler contains a  
plurality of reading processes and a corre- spondence table that establishes the reading  
process to be used in **retrieving** data from the corresponding disk drive. ...

[Cited by 16](#) - [Related articles](#) - [All 2 versions](#)

### Data storage management for network interconnected processors using ...

BE Trede, MG Lotz - US Patent 5,873,103, 1999 - Google Patents  
... COMM DIRECTORY 215 DISASTER RECOVERY FACILITY 221 222 OBJECT **ACCESS**  
MANAGEMENT FACILITY 223 ... DATA FILE 805 807 CREATE DATA FILE RECALL **REQUEST**  
AND TRANSMIT TO STORAGE SERVER 808 **OPERATIONS** KERNEL USES ...

[Cited by 13](#) - [Related articles](#) - [All 2 versions](#)

### Virtual robot for a multimedia automated cartridge library system

ML Leonhardt, CA Milligan, RJ Paicer - US Patent 5,164,909, 1992 - Google Patents  
... 13 illustrates a typical label **format** that can be 30 used in this system; FIG ... a plurality of mechanisms  
all operating in conjunction to provide a movable arm for **retrieving** media elements ... a vertical  
range of motion for the wrist, roll and finger assemblies 240 to **access** various levels ...

[Cited by 21](#) - [Related articles](#) - [All 7 versions](#)

### Multilevel, hierarchical, dynamically mapped data storage subsystem

JS Belsan - US Patent 5,155,835, 1992 - Google Patents  
... The data storage subsystem does not modify **data stored** in a redundancy group but ... HOLD DATA  
UPDATE LOGICAL CYLINDER **ACCESS** COUNTER AND LAST **ACCESS** DATE READ ...  
SCHEDULE 607 PHYSICAL READ(S) 608 CLEAR ERRORS FOR **OPERATION** YES HAVE ...

[Cited by 70](#) - [Related articles](#) - [All 4 versions](#)

### Automated storage library having inventory at picker level

KE Dimirl, DL Willson - US Patent 5,377,121, 1994 - Google Patents  
... four such boxes are interconnected with the internal data structures, as such **format** is not ... media  
includes said storage medium, for sending a second **request** to **access** said storage ... The automated  
storage library of claim 6 further comprising means for **retrieving** information from ...

[Cited by 17](#) - [Related articles](#) - [All 2 versions](#)

### Modular cabinet for data storage media and drives

KT Kersey, JS McGee, CE Baker... - US Patent 5,870,245, 1999 - Google Patents  
... These systems include means for accessing a desired media element, **retrieving** it from its storage ...  
This embodiment of the invention is especially suitable for DLT **format** tape drives, as they ... 10

are preferably slidably mounted to the cabinet 12, permitting easy **access** to the ...

Cited by 19 - Related articles - All 4 versions

### Automated tape cartridge library with accelerated calibration

MD Gray... - US Patent 5,819,303, 1998 - Google Patents

... These systems include means for accessing a desired media element, **retrieving** it from its ... of the present invention increases data **access** rates by providing for data **access** without tape ... the tape drives 10 through communication cables 24, which are also preferably SCSI **format**. ...

Cited by 9 - Related articles - All 2 versions

### Buffered **access** system for an automated computer media storage library

TC Ostwald, DT Hoge - US Patent 5,336,030, 1994 - Google Patents

... tape media in a car- with its associated robotic arm assembly and tape car- tridge **format**. ... opera- I. System Overview tion, a user operating host computer 101 requests **access** Referring to ... After identify the location of the requested magnetic tape **retrieving** the **data storage media** ...

Cited by 8 - Related articles - All 2 versions

### Table-based user interface for **retrieving** and manipulating indices between data ...

KA Weber, AD Poon, TP Moran - US Patent 5,572,651, 1996 - Google Patents

... [54] TABLE-BASED USER INTERFACE FOR **RETRIEVING** AND MANIPULATING ... TG and Davenport, G. "The Stratification System A Design Environment for Random **Access** Video." Proceedings of ... of categorized information may be pre- sented in a tabular **format**, showing the ...

Cited by 8 - Related articles - All 2 versions

### ... storage system with outboard physical data transfer **operation** utilizing data path ...

RF Kern, RM Kern, WF Micka, MA Sovik - US Patent 6,202,124, 2001 - Google Patents

... As an alternative, the host may generate the necessary **format** information using the catalog 20 212 and ... The actual work of **retrieving**, routing, and storing data is performed by the outboard data ... This enables **access** of the data record via two virtual addresses while only a single ...

Cited by 3 - Related articles - All 2 versions

### System for retrieval of a data record by buffering the record in segments and ...

JS Belsan, CA Milligan - US Patent 5,329,622, 1994 - Google Patents

... Since the data is stored in a track **format** on a rotating media, the actuator associ- ated with ... a **request** to read data that spans a plurality of track sec- tors by **retrieving** the data ... memory, a random **access** electronic storage used to retain frequently used data for faster **access** by the ...

Cited by 6 - Related articles - All 2 versions

### Management of removable media for multiple device types

RW Korngiebel, ML Leonhardt, CA Milligan - US Patent 5,416,914, 1995 - Google Patents

... data record- the library system which contain media of a form and 50 mS **format** used on ... In **operation**, a user con- 30 nected to host computer 101 requests **access** to a data file. This **request** must be translated into an identifica- tion of a particular media element which presently ...

Cited by 21 - Related articles - All 2 versions

### Method and apparatus for information accesss employing overlapping clusters

JW Tukey, JO Pedersen - US Patent 5,787,422, 1998 - Google Patents

... clusters to improve recall. The present invention is directed to improv- ing the performance of information **access** methods and apparatus through the use of non-disjoint (overlapped) clus- tering **operations**. The present invention is ...

Cited by 29 - Related articles - All 4 versions

### Method and apparatus for handling audit requests of logical volumes in a virtual ...

CL Fosler, FD Gallo, RA James, AA Lambert - US Patent 5,963,971, 1999 - Google Patents

... storage interface between the host and various data storage facilities including a direct-**access**

stor- age ... to interface with the VRMS as if the host were storing and **retrieving** data exclusively ...  
The host(s) 102 issues commands in an appropriate **format** to direct the performance of ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

### Read/write head buffer

RE Dean, SC Cacka, JF Kitchen, DP Schaefer, .. - US Patent .., 1992 - Google Patents  
... rupted, the use of the read/write head buffer enables the processor to have **access** to a ... data in  
this **format** is converted by control module 106 into a bit serial **format** wherein error ... device having  
at least four 35 said read/write heads per actuator for **retrieving data stored** on said ...

[Cited by 4](#) - [Related articles](#) - [All 6 versions](#)

### Virtual drives in an automated storage library

CJ Monahan, ML Monahan, DL Willson - US Patent 5,121,483, 1992 - Google Patents  
... 1 (205 / DID READY \ N0 (VOLUME ROUTINE xu \ SUCCEED ( 207 **OPERATIONS** ON VOLUME  
(206 ... IN 1 DRIVE ROUTINE | / PICKER XNC^ tLLK \ AVAILABLE / \* (309 rvtS ,w \ ( NEW **ACCESS**  
y^ YES ... relates to a machine-executed method for servicing a mount **request** in an ...

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### Fault tolerant controller system and method

WA Brant, ME Nielson, GW Howard - US Patent 5,708,771, 1998 - Google Patents  
... whose primary purpose is for medium is received in a manner that allows the receiving **retrieving**  
data from ... A technique controllers 12A and 13A can both **access** the memory 20 or 55 for improving  
system ... intolerable as it does not exist in a protected **format** on the 3. That is, FIG. ...

[Cited by 11](#) - [Related articles](#) - [All 4 versions](#)

### Data **access** based on human-produced images

WAL Johnson - US Patent 5,745,610, 1998 - Google Patents  
... If the codes are obtained directly, such **request** retrieval of the item of data identified by the ... have  
difficulty and defining an identifying image for the item of data can be **retrieving** items of ... d includes  
data mat are transitory or are being stored other character codes in data **access**. ...

[Cited by 2](#) - [Related articles](#) - [All 5 versions](#)

### Maximizing hit ratio in an automated storage library

LD Willson, DJ Winarski - US Patent 5,980,318, 1999 - Google Patents  
... 9,1999 Sheet 7 of 7 **REQUEST** LIST AND CHANGE FAF'S 140 ^141 LIST AND ... The cost of filing,  
storing, and **retrieving** such paper documents including image data is escalating ... or warehouses  
stocked full of documents which must be retrieved manually when **access** thereto is ...

[Cited by 7](#) - [Related articles](#) - [All 2 versions](#)

### System for allocating worm optical medium file storage in groups of fixed size ...

WT Burke, LW Loen, RK Rolfe - US Patent 5,347,651, 1994 - Google Patents  
... ADDRESSABLE AREAS WHOLE TRACKING art which facilitate space-management and data  
**access**- UNRECORDED AREAS ... is parked during disk non-use at one radial ex- the same **format**. ...  
gramming in host processor 10 (not shown) proceed to tion **request** may include ...

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### Quality control seismic data processing system

MW Norris, M Hares, G Wood - US Patent 5,920,828, 1999 - Google Patents  
... lunctions such as checking seismic data and positioning data, ol verifying the **format** ol merged ...  
PDL10 can **access**, identify, store and share Attributes for the entire exploration prospect or any ...  
Computer power and flexibility for the PDL 10 **operation** can be provided by an IBM SP ...

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